

A. Nelson

CRF Error Corrected by th STIC Syst Branch

Serial Number: 08/908,884

CRF Processing Dat : 7/29/98 8/28/98  
Edited by: [Signature]  
Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☒ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☒ Inserted ~~mandatory~~ headings, specifically: Seq 28 - added "TYPE:" to "MOLECULE"
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*Examin r: Th abov corrections must be communicated to th applicant in th first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/908,884DATE: 08/24/98  
TIME: 12:45:50

INPUT SET: S3378.raw

**This Raw Listing contains the General  
Information Section and up to the first 5 pages.**

## SEQUENCE LISTING

**ENTERED**

1  
2  
3 (1) General Information  
4  
5 (i) APPLICANT: Dong et al.  
6  
7 (ii) TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF  
8  
9 (iii) NUMBER OF SEQUENCES: 28  
10  
11 (iv) CORRESPONDENCE ADDRESS:  
12 (A) ADDRESSEE: Clark & Elbing LLP  
13 (B) STREET: 176 Federal Street  
14 (C) CITY: Boston  
15 (D) STATE: MA  
16 (E) COUNTRY: USA  
17 (F) ZIP: 02110  
18  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Diskette  
22 (B) COMPUTER: IBM Compatible  
23 (C) OPERATING SYSTEM: DOS  
24 (D) SOFTWARE: FastSEQ for Windows Version 2.0  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER:  
28 (B) FILING DATE:  
29 (C) CLASSIFICATION:  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER: 60/023,851  
33 (B) FILING DATE: August 9, 1996  
34  
35 (A) APPLICATION NUMBER: 60/035,166  
36 (B) FILING DATE: January 10, 1997  
37  
38 (A) APPLICATION NUMBER: 60/046,769  
39 (B) FILING DATE: May 16, 1997  
40  
41  
42 (viii) ATTORNEY/AGENT INFORMATION:  
43 (A) NAME: Elbing, Karen L  
44 (B) REGISTRATION NUMBER: 35,238  
45 (C) REFERENCE/DOCKET NUMBER: 00786/339004  
46

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/908,884DATE: 08/24/98  
TIME: 12:45:52

INPUT SET: S3378.raw

47 (ix) TELECOMMUNICATION INFORMATION:  
48 (A) TELEPHONE: 617-428-0200  
49 (B) TELEFAX: 617-428-7045  
50  
51  
52  
53 (2) INFORMATION FOR SEQ ID NO:1:  
54  
55 (i) SEQUENCE CHARACTERISTICS:  
56 (A) LENGTH: 7548 base pairs  
57 (B) TYPE: nucleic acid  
58 (C) STRANDEDNESS: double  
59 (D) TOPOLOGY: linear  
60  
61 (ii) MOLECULE TYPE: Genomic DNA  
62  
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
64  
65 AAGCTTGTGA TGCAAGTCAT GGGATATTGC TTTGTGTTAA GTATACAAAA CCATCACGTG 60  
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71 CTTGCATTGG ATATCACGGA ACAACAATGT GATCCGGTTT TGTCTCAAAA CCGAAACTTG 420  
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80 ATATATCTAG TGATGTTTAA TTGTTTTTTA TAAGGTAAAA AGGAATATTG AATTTTGTTT 960  
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83 ATAGTGTCCT AATTTTCTCT CTAAATAAT ATATTAGTTA ATAAAAGATA TTTTAATATA 1140  
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85 ATTGTTTACA TATATTTATA GCTTACCAAT ATAACCGTA TCTATGTTTT ATAAGCTTTT 1260  
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96 ATCAAGTGAA GGATGAGCCA AATTTGTTTA GACGTGTTAT GAATTTGCTT TTACGTCGTA 1920  
97 GTTATTGAAA AAGCTGATTT ATCGCATGAT TCAGAACGAG AAGTTGAAGG CAAATAACTA 1980  
98 AAGAAGTCTT TTATATGTAT ACAATAATTG TTTTAAATC AAATCCTAAT TAAAAAATA 2040  
99 TATTCATTAT GACTTTCATG TTTTAAATGT AATTTATTCC TATATCTATA ATGATTTTTG 2100

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/908,884

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TIME: 12:45:54

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103	TTATCATTTT	ACTTCAAAGA	AAATAAACAG	AAATGTAACT	TTCACATGTA	AATCTAATTC	2340
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106	TTGAACTTCT	CATATACAAA	AATTAGCAAC	ACAAAATGTC	TCCGGTATAA	ATACTAACAT	2520
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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/908,884DATE: 08/24/98  
TIME: 12:45:56

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157	TGACTCCATA	TCTCCGACCA	CTGGTCATGA	GCCAGAGCCC	ACTGATTTTG	AGGGAATTGG	5580
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159	TCTTCCTTCT	GACTTGTGGA	TCCAGCCTGC	TTCAACAAGG	TCACCAGGTT	GTAGTCTCCA	5700
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161	TCTTGCCACA	GTGATCCGGG	TTCGTTAATA	ACAGCAACTA	TGTCCGGGTG	AGGACTGGAG	5820
162	ACGAAGCAAA	CGTCTTTCCT	TTGTGTTACC	TTCTCTCTGA	TATTAGTGAG	AAACCAACGC	5880
163	CAACTATCAG	TGGACACTTC	TTTGGTAAGC	GGAAAGCAAG	CGGGAAAAAC	AATCATCAGC	5940
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167	GTAGCCCAT	AGATGAGTGA	AATGCAGCCA	ATTAGTTTAG	GCAATACTCT	GAAACTCTGA	6180
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178	ACCCGTTACT	GTTACCCACT	CCCTGAACCT	CTAAACCATT	ATCTCTCTCT	ACTTTCACAG	6840
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184	AATCCAAAAA	TTGGATAAAG	ACCATTCAAC	AATGTACTTA	ACGCAGTCTT	TTGCCTAACC	7200
185	TTGACCGTTT	TAGGAGTGGA	TCCTTCATAG	TAAACACCAT	CAGGACCATA	CTTGGTAGAA	7260
186	CCTTTCTCTC	AAGGTTTCCA	TCGCCATGAC	CATAACAGTC	CTGCAGTGAA	TTCTAAGAAA	7320
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191

192 (2) INFORMATION FOR SEQ ID NO:2:

193

194 (i) SEQUENCE CHARACTERISTICS:

195 (A) LENGTH: 2104 base pairs

196 (B) TYPE: nucleic acid

197 (C) STRANDEDNESS: double

198 (D) TOPOLOGY: linear

199

200 (ii) MOLECULE TYPE: cDNA

201 (ix) FEATURE:

202

203 (A) NAME/KEY: Coding Sequence

204 (B) LOCATION: 93...1871

205 (D) OTHER INFORMATION:

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/908,884

DATE: 08/24/98  
TIME: 12:45:58

INPUT SET: S3378.raw

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207
208      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
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212                                     Met Asp Thr Thr Ile Asp Gly
213                                     1                               5
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215      TTC GCC GAT TCT TAT GAA ATC AGC AGC ACT AGT TTC GTC GCT ACC GAT      161
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220      Asn Thr Asp Ser Ser Ile Val Tyr Leu Ala Ala Glu Gln Val Leu Thr
221          25                               30                               35
222
223      GGA CCT GAT GTA TCT GCT CTG CAA TTG CTC TCC AAC AGC TTC GAA TCC      257
224      Gly Pro Asp Val Ser Ala Leu Gln Leu Leu Ser Asn Ser Phe Glu Ser
225      40                               45                               50                               55
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227      GTC TTT GAC TCG CCG GAT GAT TTC TAC AGC GAC GCT AAG CTT GTT CTC      305
228      Val Phe Asp Ser Pro Asp Asp Phe Tyr Ser Asp Ala Lys Leu Val Leu
229          60                               65                               70
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231      TCC GAC GGC CGG GAA GTT TCT TTC CAC CGG TGC GTT TTG TCA GCG AGA      353
232      Ser Asp Gly Arg Glu Val Ser Phe His Arg Cys Val Leu Ser Ala Arg
233          75                               80                               85
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235      AGC TCT TTC TTC AAG AGC GCT TTA GCC GCC GCT AAG AAG GAG AAA GAC      401
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237          90                               95                               100
238
239      TCC AAC AAC ACC GCC GCC GTG AAG CTC GAG CTT AAG GAG ATT GCC AAG      449
240      Ser Asn Asn Thr Ala Ala Val Lys Leu Glu Leu Lys Glu Ile Ala Lys
241          105                               110                               115
242
243      GAT TAC GAA GTC GGT TTC GAT TCG GTT GTG ACT GTT TTG GCT TAT GTT      497
244      Asp Tyr Glu Val Gly Phe Asp Ser Val Val Thr Val Leu Ala Tyr Val
245      120                               125                               130                               135
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252      Asp Glu Asn Cys Cys His Val Ala Cys Arg Pro Ala Val Asp Phe Met
253          155                               160                               165
254
255      TTG GAG GTT CTC TAT TTG GCT TTC ATC TTC AAG ATC CCT GAA TTA ATT      641
256      Leu Glu Val Leu Tyr Leu Ala Phe Ile Phe Lys Ile Pro Glu Leu Ile
257          170                               175                               180
258

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## \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

946 (2) INFORMATION FOR SEQ ID NO:28:

947

948 (i) SEQUENCE CHARACTERISTICS:

949 (A) LENGTH: 21 base pairs

950 (B) TYPE: nucleic acid

951 (C) STRANDEDNESS: single

952 (D) TOPOLOGY: linear

953

954 (ii) MOLECULE TYPE: DNA

955 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

956

957 RAAYTCRCAN GTNCCYTTCA T

21

958

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PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/908,884**

DATE: 08/24/98  
TIME: 12:46:01

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Line	Error	Original Text
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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/908,884DATE: 08/24/98  
TIME: 12:44:15

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This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

## SEQUENCE LISTING

--> 1  
2  
3 (1) General Information  
4  
5 (i) APPLICANT: Dong et al.  
6  
7 (ii) TITLE OF THE INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF  
8  
9  
10 (iii) NUMBER OF SEQUENCES: 28  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: Clark & Elbing LLP  
14 (B) STREET: 176 Federal Street  
15 (C) CITY: Boston  
16 (D) STATE: MA  
17 (E) COUNTRY: USA  
18 (F) ZIP: 02110  
19  
20  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Diskette  
23 (B) COMPUTER: IBM Compatible  
24 (C) OPERATING SYSTEM: DOS  
25 (D) SOFTWARE: FastSEQ for Windows Version 2.0  
26  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER:  
29 (B) FILING DATE:  
30 (C) CLASSIFICATION:  
31  
32 (vii) PRIOR APPLICATION DATA:  
33 (A) APPLICATION NUMBER: 60/023,851  
34 (B) FILING DATE: August 9, 1996  
35  
36 (A) APPLICATION NUMBER: 60/035,166  
37 (B) FILING DATE: January 10, 1997  
38  
39 (A) APPLICATION NUMBER: 60/046,769  
40 (B) FILING DATE: May 16, 1997  
41  
42  
43 (viii) ATTORNEY/AGENT INFORMATION:  
44 (A) NAME: Elbing, Karen L  
45 (B) REGISTRATION NUMBER: 35,238

Does Not Comply  
Corrected Diskette Needed

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/908,884DATE: 08/24/98  
TIME: 12:44:17

INPUT SET: S3378.raw

46 (C) REFERENCE/DOCKET NUMBER: 00786/339004  
47  
48 (ix) TELECOMMUNICATION INFORMATION:  
49 (A) TELEPHONE: 617-428-0200  
50 (B) TELEFAX: 617-428-7045  
51  
52  
53

## ERRORED SEQUENCES FOLLOW:

947 (2) INFORMATION FOR SEQ ID NO:28:  
948  
949 (i) SEQUENCE CHARACTERISTICS:  
950 (A) LENGTH: 21 base pairs  
951 (B) TYPE: nucleic acid  
952 (C) STRANDEDNESS: single  
953 (D) TOPOLOGY: linear  
954  
--> 955 (ii) MOLECULE <sup>add "TYPE:"</sup> DNA  
956 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:  
957  
958 RAAATCRCAN GTNCCYTTCA T

21

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/908,884**

DATE: 08/24/98  
TIME: 12:44:18

*INPUT SET: S3378.raw*

Line	Error	Original Text
7	Mandatory Value Not Present	(ii) TITLE OF THE INVENTION:
955	Unknown or Misplaced Identifier	(ii) MOLECULE DNA

PAGE: 1

**SEQUENCE MISSING ITEM REPORT**  
**PATENT APPLICATION US/08/908,884**

DATE: 08/24/98  
TIME: 12:44:18

*INPUT SET: S3378.raw*

< < THERE ARE NO ITEMS MISSING > >